

Applicant : Gregory L. S. Miller et al.
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Attorney's Docket No.: 09/770-038002 / ASC-152 Cont.

REMARKS

Applicants have amended claims 8 and 9 and have added new claims 22-35. Support for these amendments can be found in the specification at page 3, lines 13-16; page 5, lines 5-6; page 7, line 33-35; page 9, lines 17- 35; page 12, lines 33-36; page 15, lines 16-20; page 16, lines 25-28; and page 18, lines 1-5. No new matter has been added by the above amendment.

Applicant submits that all of the claims are now in condition for examination, which action is requested. Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Filed herewith is a check in payment of the excess claims fees required by the above amendments. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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"Version with markings to show changes made"

In the claims:

Please amend claims 8 and 9 as follows:

8. (Once Amended) A cabled conductor according to claim 7 wherein each strand has a preselected strand lay pitch and each filament has a preselected filament cross-section and filament twist pitch, and the strand lay pitch, filament cross-section and filament twist pitch being cooperatively selected to provide a filament transposition area [which is always at least ten times the preferred direction area of a typical grain of the desired anisotropic superconducting compound] permitting crystallographic grain alignment in the grain direction at the filament cross-over points.

9. (Once Amended) A cabled conductor according to claim 8 wherein the strand lay pitch, filament cross-section and filament twist pitch are cooperatively selected to provide a filament transposition area which is always at least [thirty] ten times the preferred direction area of a typical grain of the desired anisotropic superconducting compound.

Please add new claims 22-35 as follows:

--22. A cabled conductor according to claim 9 wherein the strand lay pitch, filament cross-section and filament twist pitch are cooperatively selected to provide a filament transposition area which is always at least thirty times the preferred direction area of a typical grain of the desired anisotropic superconducting compound.--

--23. A cabled conductor according to claim 1 wherein each strand has a preselected strand lay pitch and each filament has a preselected filament cross-section and filament twist pitch, and the strand lay pitch, filament cross-section and filament twist pitch being cooperatively selected to provide a filament transposition area permitting the crystallographic grain alignment in the grain direction at the filament cross-over points.--

--24. A cabled conductor according to claim 23 wherein the strand lay pitch, filament cross-section and filament twist pitch are cooperatively selected to provide a filament transposition area which is always at least ten times the preferred direction area of a typical grain of the desired anisotropic superconducting compound.--

--25. A cabled conductor according to claim 24 wherein the strand lay pitch, filament cross-section and filament twist pitch are cooperatively selected to provide a filament transposition area which is always at least thirty times the preferred direction area of a typical grain of the desired anisotropic superconducting compound.--

--26. A cabled conductor according to claim 1, wherein each strand has a strand lay pitch and each filament has a filament cross-section and filament twist pitch, and the filament cross-section, filament twist pitch, and strand lay pitch are cooperatively selected so that the filament width in the plane of the widest longitudinal cross-section of the conductor is greater than the filament height of the widest longitudinal cross-section of the conductor.--

--27. A cabled conductor according to claim 2, wherein each strand has a strand lay pitch and each filament has a filament cross-section and filament twist pitch, and the filament cross-section, filament twist pitch, and strand lay pitch are cooperatively selected so that the filament width in the plane of the widest longitudinal cross-section of the conductor is greater than the filament height of the widest longitudinal cross-section of the conductor.--

--28. A cabled conductor according to claim 1, wherein the cabled conductor has an aspect ratio, width to height of the conductor, greater than or equal to about 3:1.--

--29. A cabled conductor according to claim 2, wherein the cabled conductor has an aspect ratio, width to height of the conductor, greater than or equal to about 3:1.--

--30. A cabled conductor according to claim 1, wherein the cabled conductor has an aspect ratio, width to height of the conductor, greater than or equal to about 5:1.--

--31. A cabled conductor according to claim 2, wherein the cabled conductor has an aspect ratio, width to height of the conductor, greater than or equal to about 5:1.--

--32. A cabled conductor according to claim 1, wherein the cabled conductor has a packing factor of at least about 75 percent.--

--33. A cabled conductor according to claim 1, wherein the cabled conductor has a packing factor of at least about 85 percent.--

--34. A cabled conductor according to claim 2, wherein the cabled conductor has a packing factor of at least about 75 percent.--

--35. A cabled conductor according to claim 2, wherein the cabled conductor has a packing factor of at least about 85 percent.--

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